

# SEQUENCE LISTING

<110> ISIS INNOVATION LIMITED  
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HILL, Adrian Vivian Sinton  
JEWELL, Derek Parry

<120> THERAPEUTIC EPITOPES AND USES THEREOF

<130> 142769 / P035468WO

<140> PCT/GB03/02450

<141> 2003-06-05

<150> GB 0212885.8

<151> 2002-06-05

<160> 758

<170> SeqWin99, version 1.02

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<223> wheat gliadin peptide

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Pro Gln Pro Glu Leu Pro Tyr

1 5

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Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln

1 5 10 15

Ser

<210> 3

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<212> PRT

<213> Homo sapiens

<400> 3

Val Arg Val Pro Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln

1 5 10 15

Gln Pro Gln Glu Gln Val Pro Leu Val Gln Gln Gln Gln Phe Pro Gly

20 25 30

Gln Gln Gln Gln Phe Pro Pro Gln Gln Pro Tyr Pro Gln Pro Gln Pro

35					40					45					
Phe	Pro	Ser	Gln	Gln	Pro	Tyr	Leu	Gln	Leu	Gln	Pro	Phe	Pro	Gln	Pro
50						55					60				
Gln	Leu	Pro	Tyr	Pro	Gln	Pro	Gln	Ser	Phe	Pro	Pro	Gln	Gln	Pro	Tyr
65					70					75					80
Pro	Gln	Pro	Gln	Pro	Gln	Tyr	Ser	Gln	Pro	Gln	Gln	Pro	Ile	Ser	Gln
				85					90					95	
Gln	Gln	Ala	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln
			100					105					110		
Gln	Ile	Leu	Gln	Gln	Ile	Leu	Gln	Gln	Gln	Leu	Ile	Pro	Cys	Met	Asp
	115						120					125			
Val	Val	Leu	Gln	Gln	His	Asn	Ile	Ala	His	Ala	Arg	Ser	Gln	Val	Leu
	130					135					140				
Gln	Gln	Ser	Thr	Tyr	Gln	Leu	Leu	Gln	Glu	Leu	Cys	Cys	Gln	His	Leu
145					150					155					160
Trp	Gln	Ile	Pro	Glu	Gln	Ser	Gln	Cys	Gln	Ala	Ile	His	Asn	Val	Val
				165					170					175	
His	Ala	Ile	Ile	Leu	His	Gln	Gln	Gln	Lys	Gln	Gln	Gln	Gln	Pro	Ser
			180					185					190		
Ser	Gln	Val	Ser	Phe	Gln	Gln	Pro	Leu	Gln	Gln	Tyr	Pro	Leu	Gly	Gln
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Gly	Ser	Phe	Arg	Pro	Ser	Gln	Gln	Asn	Pro	Gln	Ala	Gln	Gly	Ser	Val
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Gln	Pro	Gln	Gln	Leu	Pro	Gln	Phe	Glu	Glu	Ile	Arg	Asn	Leu	Ala	Leu
225					230					235					240
Gln	Thr	Leu	Pro	Ala	Met	Cys	Asn	Val	Tyr	Ile	Ala	Pro	Tyr	Cys	Thr
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Ile	Ala	Pro	Phe	Gly	Ile	Phe	Gly	Thr	Asn						
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 Leu Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro  
 1 5 10 15  
  
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 Glu Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln  
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 Ser  
  
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 Ser  
  
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 Ser  
  
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Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Ser

<210> 11  
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<220>  
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<400> 11  
Leu Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro  
1 5 10 15

Gln Ser Phe Pro  
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<210> 12  
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<400> 12  
Pro Gln Leu Pro Tyr  
1 5

<210> 13  
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<400> 13  
Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr  
1 5 10

<210> 14



<211> 11  
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<220>  
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<400> 14  
Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln  
1 5 10

<210> 15  
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Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr Trp  
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1 5 10 15

<210> 17  
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<220>  
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<400> 17  
Pro Gln Pro Gln Pro Phe Pro Pro Glu Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Ser

<210> 18  
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<220>  
<223> wheat gliadin peptide

<400> 18  
Phe Pro Gln Pro Gln Leu Pro Tyr Pro

1 5

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<400> 19  
 Phe Pro Gln Pro Gln Gln Pro Phe Pro  
 1 5

<210> 20  
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<400> 20  
 Pro Gln Gln Pro Gln Gln Pro Phe Pro  
 1 5

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<400> 21  
 Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln  
 1 5 10

<210> 22  
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<400> 22  
 Leu Gln Pro Glu Asn Pro Ser Gln Glu Gln Pro Glu  
 1 5 10

<210> 23  
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 <223> Xaa is any amino acid

<220>  
<222> 10  
<223> Xaa is Ile, Leu, Met or Pro

<220>  
<222> 11  
<223> Xaa is Pro, Ser or Thr

<400> 23  
Xaa Xaa Xaa Xaa Xaa Xaa Pro Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa

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<220>  
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Val Leu Gln Gln His Asn Ile Ala His Gly Ser Ser Gln Val Leu Gln  
1 5 10 15

Glu Ser Thr Tyr  
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<212> PRT  
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<400> 25  
Ile Lys Asp Phe His Val Tyr Phe Arg Glu Ser Arg Asp Ala Leu Trp  
1 5 10 15

Lys Gly Pro Gly  
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<223> wheat gliadin peptide

<400> 26  
Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Pro

<210> 27  
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<220>  
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<400> 27  
Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Pro

<210> 28  
<211> 17  
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<220>  
<223> wheat gliadin peptide

<400> 28  
Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Ser Gln Pro Gln  
1 5 10 15

Pro

<210> 29  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 29  
Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Ser Gln Pro Gln  
1 5 10 15

Pro

<210> 30  
<211> 20  
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<400> 30  
Gln Gln Thr Tyr Pro Gln Arg Pro Gln Gln Pro Phe Pro Gln Thr Gln  
1 5 10 15

Gln Pro Gln Gln  
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<210> 31  
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 <400> 31  
 Pro Gln Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln  
 1 5 10 15

Pro Phe Pro Trp  
 20

<210> 32  
 <211> 20  
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<220>  
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<400> 32  
 Gln Gln Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Leu Pro  
 1 5 10 15

Phe Pro Gln Gln  
 20

<210> 33  
 <211> 20  
 <212> PRT  
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<220>  
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<400> 33  
 Gln Ala Phe Pro Gln Pro Gln Gln Thr Phe Pro His Gln Pro Gln Gln  
 1 5 10 15

Gln Phe Pro Gln  
 20

<210> 34  
 <211> 20  
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<400> 34  
 Thr Gln Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe  
 1 5 10 15

Pro Gln Thr Gln  
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<210> 35  
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 <400> 35  
 Pro Ile Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Gln  
 1 5 10 15  
  
 Gln Pro Phe Pro  
 20  
  
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 <400> 36  
 Pro Gln Gln Ser Phe Ser Tyr Gln Gln Gln Pro Phe Pro Gln Gln Pro  
 1 5 10 15  
  
 Tyr Pro Gln Gln  
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 Gln Xaa Pro Phe  
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Gln Xaa Xaa Xaa  
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<210> 39  
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<400> 39  
Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Phe Pro  
1 5 10

<210> 40  
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<212> PRT  
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<220>  
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Gln Gln Pro Phe Pro Gln Gln Pro Gln Gln Pro Phe Pro  
1 5 10

<210> 41  
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Pro Ile Gln Pro Gln Gln Pro Phe Pro Gln Gln Pro  
1 5 10

<210> 42  
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<223> wheat gliadin peptide

<400> 42  
Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln  
1 5 10

<210> 43  
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<223> wheat gliadin peptide

<400> 43  
Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln  
1 5 10

<210> 44  
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<212> PRT  
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<220>  
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<400> 44  
Gln Gln Tyr Pro Ser Gly Gln Gly Ser Phe Gln Pro Ser Gln Gln Asn  
1 5 10 15

Pro Gln

<210> 45  
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<212> PRT  
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<223> Xaa is Gln or Leu

<220>  
<222> 5  
<223> Xaa is Phe or Tyr

<400> 45  
Pro Gln Xaa Pro Xaa Pro  
1 5

<210> 46  
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<212> PRT  
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<223> wheat gliadin peptide

<400> 46  
Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln  
1 5 10

<210> 47  
<211> 14  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 47  
Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Glu Leu Pro Tyr



1 5 10

<210> 48  
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<400> 48  
 Gln Gln Leu Pro Gln Pro Glu Gln Pro Gln Gln Ser Phe Pro Glu Gln  
 1 5 10 15

Glu Arg Pro Phe  
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<400> 49  
 Gln Leu Gln Pro Phe Pro Gln Pro Glu Leu Pro Tyr Pro Gln Pro Gln  
 1 5 10 15

Leu

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<400> 50  
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 1 5 10 15

Pro Phe Pro Trp Gln Pro  
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 1 5 10 15

Leu

<210> 52  
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 Pro Phe Pro Gln Pro Gln Leu Pro Tyr  
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 Ile Ile Pro Gln Gln Pro Ala Gln  
 1 5  
  
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 1 5 10 15  
  
 Gln Gln Pro Gln  
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Pro Phe Ser Gln Gln Gln Gln Gln  
1 5

<210> 67  
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<400> 67  
Gln Leu Gln Pro Phe Pro Gln Pro Gln Leu Pro Tyr Leu Gln Pro Gln  
1 5 10 15

Pro

<210> 68  
<211> 17  
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<220>  
<223> wheat gliadin peptide

<400> 68  
Gln Leu Gln Pro Phe Pro Arg Pro Gln Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Pro

<210> 69  
<211> 17  
<212> PRT  
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<400> 69  
Gln Leu Gln Pro Phe Leu Gln Pro Gln Leu Pro Tyr Ser Gln Pro Gln  
1 5 10 15

Pro

<210> 70  
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1 5 10 15

Pro

<210> 71  
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1 5 10 15

Pro

<210> 72  
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<400> 72  
Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Pro

<210> 73  
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Pro Gln Leu Pro Tyr Pro Gln Pro Gln Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Leu

<210> 74  
<211> 17  
<212> PRT  
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<400> 74  
Pro Gln Pro Gln Pro Phe Leu Pro Gln Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Ser

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<220>  
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<400> 75  
Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Gln  
1 5 10 15

Ser

<210> 76  
<211> 17  
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Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Tyr Gln  
1 5 10 15

Pro

<210> 77  
<211> 17  
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<220>  
<223> wheat gliadin peptide

<400> 77  
Pro Gln Pro Gln Pro Phe Pro Pro Gln Leu Pro Tyr Pro Gln Pro Pro  
1 5 10 15

Pro

<210> 78  
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<223> wheat gliadin peptide

<400> 78  
Val Pro Gln Leu Gln Pro Gln Asn Pro Ser Gln Gln Gln Pro Gln Glu  
1 5 10 15

Gln Val

<210> 79  
<211> 18  
<212> PRT  
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<223> wheat gliadin peptide

<400> 79  
Val Pro Gln Leu Gln Pro Glu Asn Pro Ser Gln Gln Gln Pro Gln Glu  
1 5 10 15

Gln Val

<210> 80  
<211> 18  
<212> PRT  
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<220>  
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<400> 80  
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1 5 10 15

Gln Val

<210> 81  
<211> 18  
<212> PRT  
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<220>  
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Gln Val

<210> 82  
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<220>  
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1 5 10 15

Gln Val



<210> 83  
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<400> 83  
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<210> 84  
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<210> 85  
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Gln Val

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Gln Pro Phe

<210> 99  
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Pro Gln

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Gln Arg Pro Phe  
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Gln Gln Pro Gln  
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<210> 114

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<210> 115

<211> 20

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<400> 115

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Gln Gln Pro Gln  
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<210> 116

<211> 20

<212> PRT

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<400> 116

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1 5 10 15

Gln Gln Pro Gln  
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<210> 117

<211> 20

<212> PRT

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<220>

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<210> 118  
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<220>  
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Leu Val Gln Gln  
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<210> 123  
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<400> 123  
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Leu Val Gln Gln  
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<400> 124  
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Leu Val Gln Glu  
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<220>  
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<400> 125  
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Leu Val Gln Glu  
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Leu Val Gln Gln  
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<400> 127  
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Leu Val Gln Gln  
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Leu Val Gln Gln  
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<210> 129  
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<400> 129

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<210> 130  
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<220>  
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Gly Gln Gln Gln  
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<210> 131  
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<220>  
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<210> 132  
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<220>  
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<400> 132  
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Gly Gln Gln Gln  
 20

<210> 133  
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 <212> PRT  
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<220>  
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<400> 133  
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<210> 134  
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<220>  
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<400> 134  
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Gly Gln Gln Gln  
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<210> 135  
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<220>  
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<210> 136  
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<220>  
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<210> 137  
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<220>  
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<210> 138  
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<210> 139  
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<220>  
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Gln Gln Pro Tyr  
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Gln Gln Pro Tyr  
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Gln Gln Pro Tyr

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1 5 10 15

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Phe Pro Ser Gln  
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<220>  
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Pro Phe Pro Ser  
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Leu Gln Leu Gln  
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<210> 156  
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Gln Leu Gln Pro  
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<210> 157  
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 Pro Gln Pro Phe  
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<210> 165  
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Pro Gln Pro Gln



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Pro Gln Pro Gln

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Gln Gln Gln Gln  
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Gln Gln Gln Gln  
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<400> 239

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Leu Gln Gln Gln  
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<400> 240

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Gln Leu Ile Pro  
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<400> 241

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Gln Leu Ile Pro  
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<210> 242

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<400> 242

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 Val Leu Gln Gln  
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Gln Ser Thr Tyr  
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<223> wheat gliadin peptide

<400> 281

Gln	Ser	Thr	Tyr	Gln	Leu	Leu	Gln	Glu	Leu	Cys	Cys	Gln	His	Leu	Trp
1				5					10					15	

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<400> 282

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1				5					10					15	

Gln Ile Pro Glu  
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Gln	Ser	Thr	Tyr	Gln	Leu	Leu	Arg	Glu	Leu	Cys	Cys	Gln	His	Leu	Trp
1				5					10					15	

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Gln Ile Pro Glu  
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Gln Ile Pro Glu  
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<400> 287  
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Gln Ile Pro Glu

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Gln Ala Ile His  
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Gln Ala Ile His  
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<211> 20

<212> PRT

<213> Artificial Sequence

<220>

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<400> 327

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Gln Gln Tyr Pro  
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<210> 328

<211> 20

<212> PRT

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<400> 328  
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Gln Gln Tyr Pro  
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<400> 329  
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Gln Gln Tyr Pro  
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<400> 330  
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Gln Tyr Pro Leu  
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<400> 331  
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Gln Gln Gln Leu  
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Gln Gln Gln Leu  
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<400> 333  
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Gln Tyr Pro Ser  
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<400> 334  
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Gln Gln Gln Gln  
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Glu Gln Tyr Pro  
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<400> 336

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Gln Lys Gln Gln  
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Ser Gln Val Ser  
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<210> 338  
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<400> 338  
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<400> 339  
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<220>  
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<400> 347  
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<220>  
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<400> 348  
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<220>  
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<400> 349  
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<220>  
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Phe Phe Gln Pro  
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<400> 351  
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Ser Phe Gln Pro  
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Pro Gln Ala Gln

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<400> 357  
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Pro Gln Ala Gln  
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Pro Gln Ala Gln  
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Thr Leu Pro Ala  
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Tyr Ile Pro Pro  
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Ala Pro Phe Gly  
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<210> 404  
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Ala Pro Val Gly  
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<210> 406  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
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<400> 406  
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Ser Thr  
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Thr Ile Ala Pro  
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<210> 407  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 407  
 Thr Leu Pro Arg Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Ser Thr  
 1 5 10 15

Thr Ile Ala Pro  
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<210> 408  
 <211> 20  
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<220>  
 <223> wheat gliadin peptide

<400> 408  
 Thr Leu Pro Arg Met Cys Asn Val Tyr Ile Pro Pro Tyr Cys Ser Thr  
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Thr Thr Ala Pro  
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<210> 409  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 409  
 Thr Leu Pro Ala Met Cys Asn Val Tyr Ile Pro Pro His Cys Ser Thr



1 5 10 15

Thr Ile Ala Pro  
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<210> 410

<211> 19  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 410  
Tyr Ile Pro Pro Tyr Cys Thr Ile Ala Pro Phe Gly Ile Phe Gly Thr  
1 5 10 15

Asn Tyr Arg

<210> 411  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 411  
Tyr Ile Pro Pro Tyr Cys Thr Ile Val Pro Phe Gly Ile Phe Gly Thr  
1 5 10 15

Asn Tyr Arg

<210> 412  
<211> 19  
<212> PRT  
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<220>  
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<400> 412  
Tyr Ile Pro Pro Tyr Cys Ala Met Ala Pro Phe Gly Ile Phe Gly Thr  
1 5 10 15

Asn Tyr Arg

<210> 413  
<211> 19  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 413  
Tyr Ile Pro Pro Tyr Cys Thr Met Ala Pro Phe Gly Ile Phe Gly Thr

1

5

10

15

Asn Tyr Arg

&lt;210&gt; 414

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; wheat gliadin peptide

&lt;400&gt; 414

Tyr	Ile	Pro	Pro	Tyr	Cys	Thr	Ile	Thr	Pro	Phe	Gly	Ile	Phe	Gly	Thr
1				5					10					15	

Asn

&lt;210&gt; 415

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; wheat gliadin peptide

&lt;400&gt; 415

Tyr	Ile	Pro	Pro	Tyr	Cys	Thr	Ile	Ala	Pro	Val	Gly	Ile	Phe	Gly	Thr
1				5					10					15	

Asn Tyr Arg

&lt;210&gt; 416

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; wheat gliadin peptide

&lt;400&gt; 416

Tyr	Ile	Pro	Pro	Tyr	Cys	Ser	Thr	Thr	Ile	Ala	Pro	Val	Gly	Ile	Phe
1				5					10					15	

Gly Thr Asn

&lt;210&gt; 417

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; wheat gliadin peptide

&lt;400&gt; 417

Tyr	Ile	Pro	Pro	Tyr	Cys	Ser	Thr	Thr	Thr	Ala	Pro	Phe	Gly	Ile	Phe
1				5					10					15	

Gly Thr Asn

<210> 418  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 418  
Tyr Ile Pro Pro His Cys Ser Thr Thr Ile Ala Pro Phe Gly Ile Phe  
1 5 10 15

Gly Thr Asn

<210> 419  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 419  
Tyr Ile Pro Pro His Cys Ser Thr Thr Ile Ala Pro Phe Gly Ile Ser  
1 5 10 15

Gly Thr Asn

<210> 420  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 420  
Ile Pro Pro Tyr Cys Ser Thr Thr Ile Ala Pro Phe Gly Ile Phe Gly  
1 5 10 15

Thr Asn Tyr Arg  
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<210> 421  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 421  
Gly Thr Ala Asn Met Gln Val Asp Pro Ser Ser Gln Val Gln Trp Pro  
1 5 10 15

Gln Gln Gln Pro  
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<210> 422  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 422  
Gly Thr Ala Asn Ile Gln Val Asp Pro Ser Gly Gln Val Gln Trp Leu  
1 5 10 15

Gln Gln Gln Leu  
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<210> 423  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 423  
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Gln Gln Gln Pro  
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<210> 424  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 424  
Met Asn Ile Gln Val Asp Pro Ser Gly Gln Val Pro Trp Pro Gln Gln  
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Gln Pro Phe Pro  
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<210> 425  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 425  
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1 5 10 15

Gln Gln Gln Pro

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<210> 426  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 426  
Thr Thr Ala Asn Ile Gln Val Asp Pro Ser Gly Gln Val Gln Trp Pro  
1 5 10 15

Gln Gln Gln Gln  
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<210> 427  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 427  
Ala Thr Ala Asn Met Gln Val Asp Pro Ser Gly Gln Val Gln Trp Pro  
1 5 10 15

Gln Gln Gln Pro  
20

<210> 428  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 428  
Gln Ile Val Phe Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Gln  
1 5 10 15

Pro Phe Pro

<210> 429  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 429  
Pro Ser Ser Gln Val Gln Trp Pro Gln Gln Gln Pro Val Pro Gln Pro  
1 5 10 15

His Gln Pro Phe  
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<210> 430  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> wheat gliadin peptide  
  
 <400> 430  
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 1 5 10 15

Gln Gln Pro Leu  
20

<210> 431  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 431  
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 1 5 10 15

His Gln Pro Phe  
20

<210> 432  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 432  
 Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Pro Phe Leu Gln Pro  
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His Gln Pro Phe  
20

<210> 433  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 433  
 Pro Ser Gly Gln Val Gln Trp Pro Gln Gln Gln Gln Pro Phe Pro Gln  
 1 5 10 15

Pro Gln Gln Pro  
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<210> 434  
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 1 5 10 15  
  
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 <400> 435  
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 1 5 10 15  
  
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 1 5 10 15  
  
 Gln Gln Thr Phe  
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 1 5 10 15  
  
 Gln Gln Thr Phe  
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<211> 20  
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 1 5 10 15  
  
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 1 5 10 15  
  
 Pro Gln Pro Gln  
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<212> PRT  
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 1 5 10 15  
  
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 1 5 10 15  
  
 Gln Arg Thr Ile  
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 <210> 444  
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 1 5 10 15  
  
 Gln Arg Thr Ile  
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 <210> 445  
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 1 5 10 15  
  
 Gln Thr Phe Pro  
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 1 5 10 15  
  
 Gln Thr Phe Pro  
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 <212> PRT  
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 <400> 447  
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 1 5 10 15  
  
 Gln Thr Phe Pro  
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 <210> 448  
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 <223> wheat gliadin peptide  
  
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 1 5 10 15  
  
 Gln Thr Phe Pro  
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 1 5 10 15  
  
 Phe Pro Gln Gln  
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 1 5 10 15  
  
 Gln Thr Phe His  
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 1 5 10 15  
  
 Gln Thr Phe His  
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 <210> 453  
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 1 5 10 15  
  
 Gln Thr Phe His  
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 Gln Gln Phe Pro  
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 1 5 10 15  
 Gln Gln Phe Pro  
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 1 5 10 15  
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 <400> 457  
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 Thr Phe Pro His  
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 <210> 459  
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 <400> 459  
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 <210> 460  
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 Thr Tyr Pro His  
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 1 5 10 15  
  
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 1 5 10 15  
  
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 <210> 470  
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<223> wheat gliadin peptide

<400> 470

Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Gln Phe Leu Gln Pro  
1 5 10 15

Gln Gln Pro Phe  
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<210> 471

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 471

Gln Gln Val Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Leu Gln Pro  
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Gln Gln Pro Phe  
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<210> 472

<211> 20

<212> PRT

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<220>

<223> wheat gliadin peptide

<400> 472

Gln Gln Phe Ser Gln Pro Gln Gln Pro Gln Gln Gln Phe Ile Gln Pro  
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Gln Gln Pro Phe  
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<210> 473

<211> 20

<212> PRT

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<220>

<223> wheat gliadin peptide

<400> 473

Gln Gln Phe Pro Gln Pro Gln Gln Pro Gln Gln Gln Phe Leu Gln Pro  
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Arg Gln Pro Phe  
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<210> 474

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide



<400> 474  
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Pro Gln Gln Gln  
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<210> 475  
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<220>  
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<400> 475  
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Gln Gln Thr Phe  
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<210> 476  
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<220>  
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<400> 476  
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 1 5 10 15

Gln Gln Pro Tyr  
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<210> 477  
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<220>  
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<400> 477  
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Gln Gln Thr Tyr  
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<210> 478  
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<400> 478

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Gln Arg Pro Gln  
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<210> 479

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<400> 479

Pro Gln Gln Gln Phe Leu Gln Pro Arg Gln Pro Phe Pro Gln Gln Pro  
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Gln Gln Pro Tyr  
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<210> 480

<211> 20

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<400> 480

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Gln Gln Pro Gln  
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<210> 481

<211> 20

<212> PRT

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<400> 481

Pro Gln Gln Pro Phe Pro Gln Pro Gln Gln Pro Gln Gln Pro Phe Pro  
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Gln Pro Gln Gln  
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<210> 482

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Gln Leu Pro Phe  
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<210> 483  
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<400> 483  
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<210> 484  
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<400> 484  
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Gln Pro Gln Gln  
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 1 5 10 15  
  
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 1 5 10 15  
  
 Leu Gln Cys Ala  
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 <210> 567  
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<223> wheat gliadin peptide

<400> 567

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Thr  
1 5 10 15

Ile Ile His Ser  
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<210> 568

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 568

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Thr  
1 5 10 15

Val Ile His Ser  
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<210> 569

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 569

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Ser  
1 5 10 15

Val Val His Ser  
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<210> 570

<211> 20

<212> PRT

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<220>

<223> wheat gliadin peptide

<400> 570

Gln Leu Ala Gln Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Ser  
1 5 10 15

Ile Val His Ser  
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<210> 571

<211> 20

<212> PRT

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<220>



<223> wheat gliadin peptide

<400> 571

Gln Leu Ala Arg Ile Pro Gln Gln Leu Gln Cys Ala Ala Ile His Gly  
1 5 10 15

Ile Val His Ser  
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<210> 572

<211> 20

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<223> wheat gliadin peptide

<400> 572

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1 5 10 15

Val Val His Ser  
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<210> 573

<211> 20

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<400> 573

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Val Ala His Ser  
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<210> 574

<211> 20

<212> PRT

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<223> wheat gliadin peptide

<400> 574

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1 5 10 15

Gln Glu Gln Gln  
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<210> 575

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 Gln Glu Gln Gln  
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<400> 579

Leu Gln Cys Ala Ala Ile His Gly Ile Val His Ser Ile Ile Met Gln  
1 5 10 15

Gln Glu Gln Gln  
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<210> 580

<211> 20

<212> PRT

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<400> 580

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Gln Glu Gln Gln  
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<210> 581

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<212> PRT

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<400> 581

Ile Ile His Ser Ile Ile Met Gln Gln Glu Gln Gln Glu Gln Gln Gln  
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Gly Met His Ile  
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<210> 582

<211> 20

<212> PRT

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<220>

<223> wheat gliadin peptide

<400> 582

Val Ile His Ser Ile Ile Met Gln Gln Glu Gln Gln Gln Gly Met His  
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Ile Leu Leu Pro  
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<210> 583

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<223> wheat gliadin peptide

<400> 583  
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Gln Gly Ile Asp  
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<210> 584  
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<400> 584  
 Ile Val His Ser Ile Ile Met Gln Gln Glu Gln Gln Glu Gln Arg Gln  
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Gly Val Gln Ile  
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<210> 585  
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Gly Val Gln Ile  
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<210> 586  
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<220>  
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<400> 586  
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 1 5 10 15

Gln Gln Gln Gln  
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<210> 587  
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<220>  
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<400> 587  
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Ile Leu Arg Pro  
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<210> 588  
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 <212> PRT  
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<220>  
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<400> 588  
 Val Ala His Ser Ile Ile Met Gln Gln Glu Gln Gln Gln Gly Val Pro  
 1 5 10 15

Ile Leu Arg Pro  
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<210> 589  
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<220>  
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 1 5 10 15

Tyr Gln Gln Gln  
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<210> 590  
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<220>  
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<400> 590  
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Leu Ser Gln His  
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<210> 591  
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<400> 591  
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Leu Ser Gln Gln  
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<210> 592  
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<220>  
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<400> 592  
 Gln Glu Gln Gln Glu Gln Arg Gln Gly Val Gln Ile Leu Val Pro Leu  
 1 5 10 15

Ser Gln Gln Gln  
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<210> 593  
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<220>  
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<400> 593  
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 1 5 10 15

Ser Gln Gln Gln  
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<210> 594  
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<220>  
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<400> 594  
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Ile Gln Ile Met  
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<210> 595  
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<220>  
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<400> 595

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 1 5 10 15

Val Gln Gly Gln  
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<210> 596  
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<220>  
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Ala Gln Gly Leu  
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<210> 597  
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Gln Leu Val Gln  
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<210> 598  
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<220>  
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<400> 598  
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Gly Thr Leu Val  
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<210> 599  
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<220>  
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<400> 599  
 Gly Ile Asp Ile Phe Leu Pro Leu Ser Gln His Glu Gln Val Gly Gln

1 5 10 15

Gly Ser Leu Val  
20

<210> 600  
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<400> 600  
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1 5 10 15

Gly Ser Leu Val  
20

<210> 601  
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<220>  
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<400> 601  
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Gly Thr Leu Val  
20

<210> 602  
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<220>  
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<400> 602  
Gly Val Gln Ile Leu Val Pro Leu Ser Gln Gln Gln Gln Val Gly Gln  
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Gly Ile Leu Val  
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<210> 603  
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<220>  
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<400> 603  
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1 5 10 15

Ile Ile Gln Pro  
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<210> 604  
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<212> PRT  
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<220>  
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<400> 604  
Gly Ile Gln Ile Leu Arg Pro Leu Phe Gln Leu Val Gln Gly Gln Gly  
1 5 10 15

Ile Ile Gln Pro  
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<210> 605  
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<212> PRT  
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<220>  
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<400> 605  
Gly Val Pro Ile Leu Arg Pro Leu Phe Gln Leu Ala Gln Gly Leu Gly  
1 5 10 15

Ile Ile Gln Pro  
20

<210> 606  
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<220>  
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<400> 606  
Tyr Gln Gln Gln Gln Val Gly Gln Gly Thr Leu Val Gln Gly Gln Gly  
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Ile Ile Gln Pro  
20

<210> 607  
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<220>  
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<400> 607  
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1 5 10 15

Ile Ile Gln Pro  
20

<210> 608  
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<400> 608  
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Ile Ile Gln Pro  
20

<210> 609  
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<220>  
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1 5 10 15

Ile Ile Gln Pro  
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<210> 610  
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<220>  
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<400> 610  
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Ile Ile Gln Pro  
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<210> 611  
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<212> PRT  
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<220>  
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<400> 611  
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1 5 10 15

Gln Leu Glu Ala  
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<210> 612  
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<220>  
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<400> 612  
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1 5 10 15

Gln Leu Glu Ala  
20

<210> 613  
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<212> PRT  
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<220>  
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<400> 613  
Phe Gln Leu Val Gln Gly Gln Gly Ile Ile Gln Pro Gln Gln Pro Ala  
1 5 10 15

Gln Leu Glu Val  
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<210> 614  
<211> 20  
<212> PRT  
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<220>  
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<400> 614  
Phe Gln Leu Ala Gln Gly Leu Gly Ile Ile Gln Pro Gln Gln Pro Ala  
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Gln Leu Glu Gly  
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<210> 615  
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<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 615  
Ile Ile Gln Pro Gln Gln Pro Ala Gln Leu Glu Ala Ile Arg Ser Leu  
1 5 10 15

Val Leu Gln Thr  
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<210> 616  
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<212> PRT  
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<220>  
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<400> 616  
Ile Ile Gln Pro Gln Gln Pro Ala Gln Leu Glu Val Ile Arg Ser Leu  
1 5 10 15

Val Leu Gln Thr  
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<210> 617  
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<212> PRT  
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<220>  
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<400> 617  
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1 5 10 15

Val Leu Gln Thr  
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<210> 618  
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<212> PRT  
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<220>  
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<400> 618  
Ile Ile Gln Pro Gln Gln Pro Ala Gln Tyr Glu Val Ile Arg Ser Leu  
1 5 10 15

Val Leu Arg Thr  
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<210> 619  
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<212> PRT  
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<220>  
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<400> 619  
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1 5 10 15

Val Leu Lys Thr  
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<210> 620  
<211> 20  
<212> PRT  
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<220>  
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<400> 620  
Gln Leu Glu Ala Ile Arg Ser Leu Val Leu Gln Thr Leu Pro Thr Met  
1 5 10 15

Cys Asn Val Tyr  
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<210> 621  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 621  
Gln Leu Glu Ala Ile Arg Ser Leu Val Leu Gln Thr Leu Pro Ser Met  
1 5 10 15

Cys Asn Val Tyr  
20

<210> 622  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 622  
Gln Leu Glu Val Ile Arg Ser Leu Val Leu Gln Thr Leu Ala Thr Met  
1 5 10 15

Cys Asn Val Tyr  
20

<210> 623  
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<212> PRT  
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<220>  
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<400> 623  
Gln Leu Glu Val Ile Arg Ser Ser Val Leu Gln Thr Leu Ala Thr Met  
1 5 10 15

Cys Asn Val Tyr

20

<210> 624  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 624  
Gln Leu Glu Val Ile Arg Ser Leu Val Leu Gly Thr Leu Pro Thr Met  
1 5 10 15

Cys Asn Val Phe  
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<210> 625  
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<212> PRT  
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<400> 625  
Gln Tyr Glu Val Ile Arg Ser Leu Val Leu Arg Thr Leu Pro Asn Met  
1 5 10 15

Cys Asn Val Tyr  
20

<210> 626  
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<220>  
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<400> 626  
Gln Leu Glu Gly Ile Arg Ser Leu Val Leu Lys Thr Leu Pro Thr Met  
1 5 10 15

Cys Asn Val Tyr  
20

<210> 627  
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<212> PRT  
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<220>  
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<400> 627  
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1 5 10 15

Cys Ser Ile Ile  
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<210> 628  
<211> 20  
<212> PRT  
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<220>  
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<400> 628  
Val Leu Gln Thr Leu Pro Ser Met Cys Asn Val Tyr Val Pro Pro Glu  
1 5 10 15

Cys Ser Ile Met  
20

<210> 629  
<211> 20  
<212> PRT  
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<220>  
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<400> 629  
Val Leu Gln Thr Leu Ala Thr Met Cys Asn Val Tyr Val Pro Pro Tyr  
1 5 10 15

Cys Ser Thr Ile  
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<210> 630  
<211> 20  
<212> PRT  
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<220>  
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<400> 630  
Val Leu Gly Thr Leu Pro Thr Met Cys Asn Val Phe Val Pro Pro Glu  
1 5 10 15

Cys Ser Thr Thr  
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<210> 631  
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<212> PRT  
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<220>  
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<400> 631  
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1 5 10 15

Cys Ser Thr Ile  
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<210> 632  
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 1 5 10 15  
  
 Cys Ser Thr Ile  
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 <400> 633  
 Cys Asn Val Tyr Val Pro Pro Glu Cys Ser Ile Ile Lys Ala Pro Phe  
 1 5 10 15  
  
 Ser Ser Val Val  
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 <210> 634  
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 <223> wheat gliadin peptide  
  
 <400> 634  
 Cys Asn Val Tyr Val Pro Pro Glu Cys Ser Ile Met Arg Ala Pro Phe  
 1 5 10 15  
  
 Ala Ser Ile Val  
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 <400> 635  
 Cys Asn Val Tyr Val Pro Pro Tyr Cys Ser Thr Ile Arg Ala Pro Phe  
 1 5 10 15  
  
 Ala Ser Ile Val  
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<210> 636  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 636  
Cys Asn Val Phe Val Pro Pro Glu Cys Ser Thr Thr Lys Ala Pro Phe  
1 5 10 15  
Ala Ser Ile Val  
20

<210> 637  
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<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 637  
Cys Asn Val Tyr Val Arg Pro Asp Cys Ser Thr Ile Asn Ala Pro Phe  
1 5 10 15  
Ala Ser Ile Val  
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<210> 638  
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<212> PRT  
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<220>  
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<400> 638  
Cys Asn Val Tyr Val Pro Pro Asp Cys Ser Thr Ile Asn Val Pro Tyr  
1 5 10 15  
Ala Asn Ile Asp  
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<210> 639  
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<212> PRT  
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<220>  
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<400> 639  
Cys Ser Ile Ile Lys Ala Pro Phe Ser Ser Val Val Ala Gly Ile Gly  
1 5 10 15  
Gly Gln

<210> 640  
 <211> 18  
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 <400> 640  
 Cys Ser Ile Met Arg Ala Pro Phe Ala Ser Ile Val Ala Gly Ile Gly  
 1 5 10 15

Gly Gln

<210> 641  
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 <400> 641  
 Cys Ser Thr Ile Arg Ala Pro Phe Ala Ser Ile Val Ala Gly Ile Gly  
 1 5 10 15

Gly Gln Tyr Arg  
20

<210> 642  
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 Cys Ser Thr Ile Arg Ala Pro Phe Ala Ser Ile Val Ala Ser Ile Gly  
 1 5 10 15

Gly Gln

<210> 643  
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 <220>  
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 1 5 10 15

Gly Gln

<210> 644

<211> 18  
 <212> PRT  
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 Cys Ser Thr Ile Asn Ala Pro Phe Ala Ser Ile Val Ala Gly Ile Ser  
 1 5 10 15

Gly Gln

<210> 645  
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 Cys Ser Thr Ile Asn Val Pro Tyr Ala Asn Ile Asp Ala Gly Ile Gly  
 1 5 10 15

Gly Gln

<210> 646  
 <211> 20  
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 <400> 646  
 Pro Gln Gln Pro Phe Pro Leu Gln Pro Gln Gln Ser Phe Leu Trp Gln  
 1 5 10 15

Ser Gln Gln Pro  
20

<210> 647  
 <211> 20  
 <212> PRT  
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 <220>  
 <223> wheat gliadin peptide  
  
 <400> 647  
 Pro Gln Gln Ser Phe Leu Trp Gln Ser Gln Gln Pro Phe Leu Gln Gln  
 1 5 10 15

Pro Gln Gln Pro  
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<210> 648  
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<212> PRT  
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 1 5 10 15  
  
 Gln Gln Val Val  
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 <210> 649  
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 <212> PRT  
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 <220>  
 <223> wheat gliadin peptide  
  
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 1 5 10 15  
  
 Pro Ala Thr Pro  
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 <210> 650  
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 <223> wheat gliadin peptide  
  
 <400> 650  
 Gln Gln Val Val Gln Ile Ile Ser Pro Ala Thr Pro Thr Thr Ile Pro  
 1 5 10 15  
  
 Ser Ala Gly Lys  
 20  
  
 <210> 651  
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 <213> Artificial Sequence  
  
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 <223> wheat gliadin peptide  
  
 <400> 651  
 Pro Ala Thr Pro Thr Thr Ile Pro Ser Ala Gly Lys Pro Thr Ser Ala  
 1 5 10 15  
  
 Pro Phe Pro Gln  
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 <210> 652  
 <211> 20  
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<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 652

Ser Ala Gly Lys Pro Thr Ser Ala Pro Phe Pro Gln Gln Gln Gln Gln  
1 5 10 15

His Gln Gln Leu  
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<210> 653

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 653

Pro Phe Pro Gln Gln Gln Gln Gln His Gln Gln Leu Ala Gln Gln Gln  
1 5 10 15

Ile Pro Val Val  
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<210> 654

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 654

His Gln Gln Leu Ala Gln Gln Gln Ile Pro Val Val Gln Pro Ser Ile  
1 5 10 15

Leu Gln Gln Leu  
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<210> 655

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 655

Ile Pro Val Val Gln Pro Ser Ile Leu Gln Gln Leu Asn Pro Cys Lys  
1 5 10 15

Val Phe Leu Gln  
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<210> 656

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 656

Leu Gln Gln Leu Asn Pro Cys Lys Val Phe Leu Gln Gln Gln Cys Ser  
1 5 10 15

Pro Val Ala Met  
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<210> 657

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 657

Val Phe Leu Gln Gln Gln Cys Ser Pro Val Ala Met Pro Gln Arg Leu  
1 5 10 15

Ala Arg Ser Gln  
20

<210> 658

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 658

Pro Val Ala Met Pro Gln Arg Leu Ala Arg Ser Gln Met Leu Gln Gln  
1 5 10 15

Ser Ser Cys His  
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<210> 659

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 659

Ala Arg Ser Gln Met Leu Gln Gln Ser Ser Cys His Val Met Gln Gln  
1 5 10 15

Gln Cys Cys Gln  
20

<210> 660

<211> 20

<212> PRT

<213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide  
  
 <400> 660  
 Ser Ser Cys His Val Met Gln Gln Gln Cys Cys Gln Gln Leu Pro Gln  
 1 5 10 15  
  
 Ile Pro Gln Gln  
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 <210> 661  
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 Gln Cys Cys Gln Gln Leu Pro Gln Ile Pro Gln Gln Ser Arg Tyr Gln  
 1 5 10 15  
  
 Ala Ile Arg Ala  
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 <210> 662  
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 Pro Gln Ile Pro Gln Gln Ser Arg Tyr Glu Ala Ile Arg Ala Ile Ile  
 1 5 10 15  
  
 Tyr Ser Ile Ile  
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 <213> Artificial Sequence  
  
 <220>  
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 Ile Pro Gln Gln Ser Arg Tyr Gln Ala Ile Arg Ala Ile Ile Tyr Ser  
 1 5 10 15  
  
 Ile Ile Leu Gln  
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 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide  
  
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 Ala Ile Arg Ala Ile Ile Tyr Ser Ile Ile Leu Gln Glu Gln Gln Gln  
 1 5 10 15  
  
 Val Gln Gly Ser  
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 Ile Ile Leu Gln Glu Gln Gln Gln Val Gln Gly Ser Ile Gln Ser Gln  
 1 5 10 15  
  
 Gln Gln Gln Pro  
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 <220>  
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 1 5 10 15  
  
 Gln Cys Val Ser  
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 <400> 667  
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 1 5 10 15  
  
 Gln Ser Gln Gln  
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 <210> 668  
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 <212> PRT  
 <213> Artificial Sequence  
  
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<223> wheat gliadin peptide

<400> 668

Gln Cys Val Ser Gln Pro Gln Gln Gln Ser Gln Gln Gln Leu Gly Gln  
1 5 10 15

Gln Pro Gln Gln  
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<210> 669

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 669

Gln Ser Gln Gln Gln Leu Gly Gln Gln Pro Gln Gln Gln Gln Leu Ala  
1 5 10 15

Gln Gly Thr Phe  
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<210> 670

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 670

Gln Pro Gln Gln Gln Gln Leu Ala Gln Gly Thr Phe Leu Gln Pro His  
1 5 10 15

Gln Ile Ala Gln  
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<210> 671

<211> 20

<212> PRT

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<220>

<223> wheat gliadin peptide

<400> 671

Gln Gly Thr Phe Leu Gln Pro His Gln Ile Ala Gln Leu Glu Val Met  
1 5 10 15

Thr Ser Ile Ala  
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<210> 672

<211> 20

<212> PRT

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<220>  
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 1 5 10 15  
  
 Pro Thr Met Cys  
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 <223> wheat gliadin peptide  
  
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 Thr Ser Ile Ala Leu Arg Ile Leu Pro Thr Met Cys Ser Val Asn Val  
 1 5 10 15  
  
 Pro Leu Tyr Arg  
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 <400> 674  
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 1 5 10 15  
  
 Val Pro Phe Gly  
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 <210> 675  
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 <400> 675  
 Pro Leu Tyr Arg Thr Thr Thr Ser Val Pro Phe Gly Val Gly Thr Gly  
 1 5 10 15  
  
 Val Gly Ala Tyr  
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 <210> 676  
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<223> wheat gliadin peptide

<400> 676

Thr Ile Thr Arg Thr Phe Pro Ile Pro Thr Ile Ser Ser Asn Asn Asn  
1 5 10 15

His His Phe Arg  
20

<210> 677

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 677

Pro Thr Ile Ser Ser Asn Asn Asn His His Phe Arg Ser Asn Ser Asn  
1 5 10 15

His His Phe His  
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<210> 678

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 678

His His Phe Arg Ser Asn Ser Asn His His Phe His Ser Asn Asn Asn  
1 5 10 15

Gln Phe Tyr Arg  
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<210> 679

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 679

His His Phe His Ser Asn Asn Asn Gln Phe Tyr Arg Asn Asn Asn Ser  
1 5 10 15

Pro Gly His Asn  
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<210> 680

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 680  
 Gln Phe Tyr Arg Asn Asn Asn Ser Pro Gly His Asn Asn Pro Leu Asn  
 1 5 10 15

Asn Asn Asn Ser  
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<210> 681  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 681  
 Pro Gly His Asn Asn Pro Leu Asn Asn Asn Asn Ser Pro Asn Asn Asn  
 1 5 10 15

Ser Pro Ser Asn  
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<210> 682  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 682  
 Asn Asn Asn Ser Pro Asn Asn Asn Ser Pro Ser Asn His His Asn Asn  
 1 5 10 15

Ser Pro Asn Asn  
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<210> 683  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 683  
 Ser Pro Ser Asn His His Asn Asn Ser Pro Asn Asn Asn Phe Gln Tyr  
 1 5 10 15

His Thr His Pro  
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<210> 684  
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 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 684  
 Ser Pro Asn Asn Asn Phe Gln Tyr His Thr His Pro Ser Asn His Lys  
 1 5 10 15

Asn Leu Pro His  
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<210> 685

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 685  
 His Thr His Pro Ser Asn His Lys Asn Leu Pro His Thr Asn Asn Ile  
 1 5 10 15

Gln Gln Gln Gln  
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<210> 686

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> wheat gliadin peptide

<400> 686  
 Asn Leu Pro His Thr Asn Asn Ile Gln Gln Gln Gln Pro Pro Phe Ser  
 1 5 10 15

Gln Gln Gln Gln  
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<210> 687

<211> 20

<212> PRT

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<220>

<223> wheat gliadin peptide

<400> 687  
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 1 5 10 15

Gln Gln Gln Gln  
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<210> 688

<211> 20

<212> PRT

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<220>

<223> wheat gliadin peptide

<400> 688  
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 1 5 10 15

Gln Gln Ser Pro  
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<210> 689  
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 <212> PRT  
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<220>  
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<400> 689  
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 1 5 10 15

Gln Gln Leu Val  
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<210> 690  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 690  
 Gln Gln Ser Pro Phe Ser Gln Gln Gln Gln Leu Val Leu Pro Pro Gln  
 1 5 10 15

Gln Gln Gln Gln  
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<210> 691  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 691  
 Gln Gln Leu Val Leu Pro Pro Gln Gln Gln Gln Gln Gln Leu Val Gln  
 1 5 10 15

Gln Gln Ile Pro  
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<210> 692  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 692

Gln Gln Gln Gln Gln Leu Val Gln Gln Gln Ile Pro Ile Val Gln Pro  
 1 5 10 15

Ser Val Leu Gln  
 20

<210> 693  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 693  
 Gln Gln Ile Pro Ile Val Gln Pro Ser Val Leu Gln Gln Leu Asn Pro  
 1 5 10 15

Cys Lys Val Phe  
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<210> 694  
 <211> 20  
 <212> PRT  
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<220>  
 <223> wheat gliadin peptide

<400> 694  
 Ser Val Leu Gln Gln Leu Asn Pro Cys Lys Val Phe Leu Gln Gln Gln  
 1 5 10 15

Cys Ser Pro Val  
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<210> 695  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 695  
 Cys Lys Val Phe Leu Gln Gln Gln Cys Ser Pro Val Ala Met Pro Gln  
 1 5 10 15

Arg Leu Ala Arg  
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<210> 696  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 696  
 Cys Ser Pro Val Ala Met Pro Gln Arg Leu Ala Arg Ser Gln Met Trp

1 5 10 15

Gln Gln Ser Ser  
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<210> 697  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 697  
Arg Leu Ala Arg Ser Gln Met Trp Gln Gln Ser Ser Cys His Val Met  
1 5 10 15

Gln Gln Gln Cys  
20

<210> 698  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 698  
Gln Gln Ser Ser Cys His Val Met Gln Gln Gln Cys Cys Gln Gln Leu  
1 5 10 15

Gln Gln Ile Pro  
20

<210> 699  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 699  
Gln Gln Gln Cys Cys Gln Gln Leu Gln Gln Ile Pro Glu Gln Ser Arg  
1 5 10 15

Tyr Glu Ala Ile  
20

<210> 700  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 700  
Gln Gln Ile Pro Glu Gln Ser Arg Tyr Glu Ala Ile Arg Ala Ile Ile  
1 5 10 15



Tyr Ser Ile Ile  
20

<210> 701  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 701  
Tyr Glu Ala Ile Arg Ala Ile Ile Tyr Ser Ile Ile Leu Gln Glu Gln  
1 5 10 15

Gln Gln Gly Phe  
20

<210> 702  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 702  
Tyr Ser Ile Ile Leu Gln Glu Gln Gln Gln Gly Phe Val Gln Pro Gln  
1 5 10 15

Gln Gln Gln Pro  
20

<210> 703  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 703  
Gln Gln Gly Phe Val Gln Pro Gln Gln Gln Gln Pro Gln Gln Ser Gly  
1 5 10 15

Gln Gly Val Ser  
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<210> 704  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 704  
Gln Gln Gln Pro Gln Gln Ser Gly Gln Gly Val Ser Gln Ser Gln Gln

1 5 10 15

Gln Ser Gln Gln  
20

<210> 705  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 705  
Gln Gly Val Ser Gln Ser Gln Gln Gln Ser Gln Gln Gln Leu Gly Gln  
1 5 10 15

Cys Ser Phe Gln  
20

<210> 706  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 706  
Gln Ser Gln Gln Gln Leu Gly Gln Cys Ser Phe Gln Gln Pro Gln Gln  
1 5 10 15

Gln Leu Gly Gln  
20

<210> 707  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 707  
Cys Ser Phe Gln Gln Pro Gln Gln Gln Leu Gly Gln Gln Pro Gln Gln  
1 5 10 15

Gln Gln Gln Gln  
20

<210> 708  
<211> 20  
<212> PRT  
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<220>  
<223> wheat gliadin peptide

<400> 708  
Gln Leu Gly Gln Gln Pro Gln Gln Gln Gln Gln Gln Gln Val Leu Gln  
1 5 10 15

Gly Thr Phe Leu  
20

<210> 709  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 709  
Gln Gln Gln Gln Gln Val Leu Gln Gly Thr Phe Leu Gln Pro His Gln  
1 5 10 15

Ile Ala His Leu  
20

<210> 710  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 710  
Gly Thr Phe Leu Gln Pro His Gln Ile Ala His Leu Glu Ala Val Thr  
1 5 10 15

Ser Ile Ala Leu  
20

<210> 711  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 711  
Ile Ala His Leu Glu Ala Val Thr Ser Ile Ala Leu Arg Thr Leu Pro  
1 5 10 15

Thr Met Cys Ser  
20

<210> 712  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 712  
Ser Ile Ala Leu Arg Thr Leu Pro Thr Met Cys Ser Val Asn Val Pro  
1 5 10 15

Leu Tyr Ser Ala  
20

<210> 713  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 713  
Thr Met Cys Ser Val Asn Val Pro Leu Tyr Ser Ala Thr Thr Ser Val  
1 5 10 15

Pro Phe Gly Val  
20

<210> 714  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 714  
Leu Tyr Ser Ala Thr Thr Ser Val Pro Phe Gly Val Gly Thr Gly Val  
1 5 10 15

Gly Ala Tyr

<210> 715  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 715  
Ser Cys Ile Ser Gly Leu Glu Arg Pro Trp Gln Gln Gln Pro Leu Pro  
1 5 10 15

Pro Gln Gln Ser  
20

<210> 716  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 716  
Pro Trp Gln Gln Gln Pro Leu Pro Pro Gln Gln Ser Phe Ser Gln Gln  
1 5 10 15

Pro Pro Phe Ser  
20

<210> 717  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 717  
Pro Gln Gln Ser Phe Ser Gln Gln Pro Pro Phe Ser Gln Gln Gln Gln  
1 5 10 15

Gln Pro Leu Pro  
20

<210> 718  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 718  
Pro Pro Phe Ser Gln Gln Gln Gln Gln Pro Leu Pro Gln Gln Pro Ser  
1 5 10 15

Phe Ser Gln Gln  
20

<210> 719  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 719  
Gln Pro Leu Pro Gln Gln Pro Ser Phe Ser Gln Gln Gln Pro Pro Phe  
1 5 10 15

Ser Gln Gln Gln  
20

<210> 720  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> wheat gliadin peptide

<400> 720  
Phe Ser Gln Gln Gln Pro Pro Phe Ser Gln Gln Gln Pro Ile Leu Ser  
1 5 10 15

Gln Gln Pro Pro

<210> 721  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 721  
 Ser Gln Gln Gln Pro Ile Leu Ser Gln Gln Pro Pro Phe Ser Gln Gln  
 1 5 10 15

Gln Gln Pro Val  
 20

<210> 722  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 722  
 Ala Thr Ala Ala Arg Glu Leu Asn Pro Ser Asn Lys Glu Leu Gln Ser  
 1 5 10 15

Pro Gln Gln Ser  
 20

<210> 723  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 723  
 Pro Ser Asn Lys Glu Leu Gln Ser Pro Gln Gln Ser Phe Ser Tyr Gln  
 1 5 10 15

Gln Gln Pro Phe  
 20

<210> 724  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 724  
 Pro Gln Gln Ser Phe Ser Tyr Gln Gln Gln Pro Phe Pro Gln Gln Pro  
 1 5 10 15

Tyr Pro Gln Gln  
 20

<210> 725  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> wheat gliadin peptide  
  
 <400> 725  
 Gln Gln Pro Phe Pro Gln Gln Pro Tyr Pro Gln Gln Pro Tyr Pro Ser  
 1 5 10 15

Gln Gln Pro Tyr  
 20

<210> 726  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 726  
 Tyr Pro Gln Gln Pro Tyr Pro Ser Gln Gln Pro Tyr Pro Ser Gln Gln  
 1 5 10 15

Pro Phe Pro Thr  
 20

<210> 727  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 727  
 Gln Gln Pro Tyr Pro Ser Gln Gln Pro Phe Pro Thr Pro Gln Gln Gln  
 1 5 10 15

Phe Pro Glu Gln  
 20

<210> 728  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> wheat gliadin peptide

<400> 728  
 Pro Phe Pro Thr Pro Gln Gln Gln Phe Pro Glu Gln Ser Gln Gln Pro  
 1 5 10 15

Phe Thr Gln Pro  
 20

<210> 729  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> wheat gliadin peptide  
  
 <400> 729  
 Phe Pro Glu Gln Ser Gln Gln Pro Phe Thr Gln Pro Gln Gln Pro Thr  
 1 5 10 15  
  
 Pro Ile Gln Pro  
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 <210> 730  
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<400> 747

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Pro Leu Gln Pro  
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Leu Tyr Pro Gln  
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<211> 20

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Gln Glu Leu Gln Ser Pro Gln Gln Leu Tyr Pro Gln Gln Pro Tyr Pro  
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Gln Gln Pro Tyr  
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<212> PRT

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<400> 756

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Gln Phe Pro Gln  
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<210> 757

<211> 20

<212> PRT

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<400> 757

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Pro Gln Pro Gln  
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<211> 16

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<400> 758

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